Reply to Final Office Action of March 7, 2007

AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the

application.

Listing of Claims

Claims 1-41. (Canceled)

42. (Currently Amended) A water treatment cartridge for treating water, said water treatment

cartridge capable of sealingly and releasably engaging a water treatment device, said water

treatment cartridge comprising:

(a) a housing, an inlet for introducing water into said water treatment cartridge, an outlet

port for egress of treated water from said water treatment cartridge, and a treatment media for treating water, said treatment media being in fluid communication with said inlet and said outlet

port:

(b) a first tube comprising an inside surface, an outside surface, a proximal end, and a

distal end, wherein at least one of said inside surface and said outside surface iscomprises a

sealing surface; and

(c) a second tube comprising an inside surface, an outside surface, a proximal end, and a

distal end, wherein at least one of said inside surface and said outside surface iscomprises a

sealing surface;

wherein said first tube extends from said housing and surrounds said outlet port forming a treated

water passageway; wherein at least a portion of said first tube or said second tube surrounds the

othersaid first tube such that a gap is formed between said first tube, said second tube, and an

outer surface of said housing; and wherein said gap is disposed between said inlet and said outlet

- 2 -

port-and-enclosed when said water treatment cartridge is sealingly engaged to a water treatment

- 43. (Previously Presented) The water treatment of claim 42, wherein at least one said sealing surface of said second tube and at least one said sealing surface of said first tube are coplanar.
- 44. (Previously Presented) The water treatment cartridge of claim 42, wherein at least a portion of said inside surface of said first tube and at least a portion of said inside surface of said second tube are sealing surfaces.
- 45. (Currently Amended) The water treatment cartridge of claim 42, wherein said distal end of said first-second tube extends from said water treatment cartridge housing a greater distance than said distal end of said second first tube.
- 46. (Previously Presented) The water treatment cartridge of claim 42, wherein said first and second tubes are without o-rings.
- 47. (Previously Presented) The water treatment cartridge of claim 42, wherein the diameter of said inside surface of said second tube is from about 1 cm to about 5 cm, and wherein the diameter of said outside surface of said first tube is from about 0.5 cm to about 3 cm.
- 48. (Previously Presented) The water treatment cartridge of claim 42, wherein said second tube extends from said first tube, and said first tube extends from said water treatment cartridge housing.
- 49. (Previously Presented) The water treatment cartridge of claim 42, wherein a portion of said outside surface of said second tube is a cam surface.

Reply to Final Office Action of March 7, 2007

50. (Currently Amended) A water treatment cartridge for treating water, said water treatment cartridge capable of sealing and releasably engaging a water treatment device, said water

treatment cartridge comprising:

(a) a housing, an inlet for introducing water into said water treatment cartridge, an outlet

port for egress of treated water from said water treatment cartridge, and a treatment media for

treating water, said treatment media being in fluid communication with said inlet and outlet port;

(b) a first tube comprising an inside surface, an outside surface, a proximal end, and a

distal end, wherein at least one of said inside surface and said outside surface iscomprises a

sealing surface; and

(c) a second tube comprising an inside surface, an outside surface, a proximal end, and a

distal end, wherein at least one of said inside surface and said outside surface is comprises a

sealing surface;

wherein said first tube extends outwardly from said housing and surrounds said outlet port  $\underline{\text{such}}$ 

that said inside surface of said first tube forms a treated water passageway for water exiting said

outlet port, and said second tube surrounds at least a portion of said first tube forming a gap

disposed between said inlet and said outlet port.;

wherein said water treatment cartridge is configured such that an enclosed gap is formed and

disposed between said inlet and said outlet port when said water treatment cartridge is sealingly

engaged to a water treatment device.

51. (Previously Presented) The water treatment cartridge of claim 50, wherein at least a

portion of said inside surface of said first tube and at least a portion of said inside surface of said

second tube are sealing surfaces.

- 4 -

Reply to Final Office Action of March 7, 2007

52. (Currently Amended) The water treatment cartridge of claim 50, wherein the most distal said sealing surface of said firstsecond tube extends from said water treatment cartridge housing

a greater distance than the most distal said sealing surface of said secondfirst tube.

53. (Previously Presented) The water treatment cartridge of claim 50, wherein said first and

second tubes are without o-rings.

54. (Previously Presented) The water treatment cartridge of claim 50, wherein the diameter of

said inside surface of said second tube is from about 1 cm to about 5 cm, and wherein the

diameter of said outside surface of said first tube is from about 0.5 cm to about 3 cm.

55. (Previously Presented) The water treatment cartridge of claim 50, wherein a portion of

said outside surface of said second tube is a cam surface.

56. (Previously Presented) The water treatment cartridge of claim 50, wherein said treatment

media comprises a radial flow carbon block.

57. (Currently Amended) A water treatment cartridge for treating water, said water treatment

cartridge capable of sealingly and releasably engaging a water treatment device, water treatment

cartridge comprising:

(a) a housing, an inlet for introducing water into said water treatment cartridge, an outlet

port for egress of treated water from said water treatment cartridge, and a treatment media for

treating water, said treatment media being in fluid communication with said inlet and said outlet

port;

(b) a first tube comprising an inside surface, an outside surface, a proximal end, and a

distal end, wherein at least one of said inside surface and said outside surface is a sealing surface;

and

- 5 -

Reply to Final Office Action of March 7, 2007

(c) a second tube comprising an inside surface, an outside surface, a proximal end, and a distal end, wherein at least one of said inside surface and said outside surface is a sealing surface:

wherein said first tube extends from said housing and surrounds said outlet port such that said inside surface of said first tube forms a treated water passageway, wherein at least a portion of said first tube or said second tube surrounds the othersaid first tube forming an annular gap between said first and second tubes, and wherein said sealing surfaces of said first and said second tubes extend from the water treatment cartridge housing about the same distances

wherein an enclosed gap is formed between said sealing surface of said first tube and said sealing surface of said second tube and disposed between said inlet and said outlet port, and wherein said sealing surfaces prevent water from flowing into said gap when said water treatment cartridge is sealingly engaged to a water treatment device.

- 58. (Previously Presented) The water treatment cartridge of claim 57, wherein said first and second tubes are without o-rings.
- 59. (Previously Presented) The water treatment cartridge of claim 57, wherein the diameter of said inside surface of said second tube is from about 1 cm to about 5 cm, and wherein the diameter of said outside surface of said first tube is from about 0.5 cm to about 3 cm.
- 60. (Currently Amended) A water treatment device for sealingly and releasably engaging a water treatment cartridge, said water treatment device comprising:
- (a) a first housing surrounding an outlet such that a treated water outlet passageway is formed, said housing comprising an inside surface and an outside surface, said first housing comprising at least one sealing surface along said outside surface of said first housing;

Reply to Final Office Action of March 7, 2007

(b) a second housing comprising an inside surface and an outside surface, said second housing comprising at least one sealing surface <u>along said outside surface of said second</u>

housing; and

(c) an inlet for introducing water into a water treatment cartridge when said water

treatment device is sealingly engaged to the water treatment cartridge;

wherein at least a portion of said second housing surrounds at least a portion of said first

 $housing \cite{to form a gap is formed} in the area between said outside$ 

surface of said first housing, said inside surface of said second housing, and said sealing surfaces

of said first and second housings; and wherein said gap is disposed between said inlet and said

treated outlet passageway and completely sealed configured to prevent water from flowing into

the gap when said water treatment device is sealingly engaged to a water treatment cartridge.

61. (Canceled)

62. (Previously Presented) The water treatment device of claim 60, wherein the area between

said outside surface of said first housing and said inside surface of said second housing functions

as an air vent.

63. (Previously Presented) The water treatment device of claim 60, wherein said water

treatment device further comprises a pressure vessel, wherein said pressure vessel is sealingly

fitted to said water treatment device such that said pressure vessel is, when the water treatment

cartridge is sealingly engaged to said water treatment device, in untreated fluid communication

with said first housing, but is not in untreated fluid communication with said second housing.

64. (Previously Presented) The water treatment device of claim 63, wherein said pressure

vessel is threadably fitted to said water treatment device.

- 7 -

Reply to Final Office Action of March 7, 2007

65. (Previously Presented) The water treatment device of claim 60, wherein said first housing is a tube, and wherein said second housing is a tube.

66. (Previously Presented) The water treatment device of claim 60, wherein said first and second housings are concentric, and wherein said first housing extends from said water treatment device a greater distance than said second housing.

67. (Canceled)

68. (Currently Amended) The water treatment device of claim 67 <u>60</u>, wherein said sealing surfaces are o-rings.

69. (Currently Amended) A water treatment device capable of sealingly and releasably engaging a water treatment cartridge, the water treatment cartridge comprising a first tube <u>having an inside surface forming a first water treatment passageway</u> and a second tube <u>surrounding said first tube</u>, said water treatment device comprising:

 (a) an outlet housing for sealingly engaging the first tube of the water treatment cartridge, said outlet housing comprising an inside surface and an outside surface, said outlet housing comprising at least one sealing surface;

(b) a vent housing for sealingly engaging the second tube of the water treatment cartridge, said vent housing comprising an inside surface and an outside surface, said vent housing comprising at least one sealing surface; and

(c) an inlet for introducing water into a water treatment cartridge when said water treatment device is sealingly engaged to the water treatment cartridge;

wherein at least a portion of said inside surface of said outlet housing forms and defines a <u>second</u> treated water outlet passageway in fluid communication with said first treated water passageway.

Reply to Final Office Action of March 7, 2007

wherein at least a portion of said outside surface of said outlet housing and at least a portion of said inside surface of said vent housing forms and defines an air vent, and wherein at least a portion of said vent housing surrounds at least a portion of said outlet housing:

wherein when the water treatment device is sealingly engaged to a water treatment cartridge, a gap is disposed between said inlet and said outlet passageway and enclosed and sealed between the sealed engagement of the outlet housing and a first tube of the water treatment cartridge and the sealed engagement of the vent housing and a second tube of the cartridge such that water is prevented from flowing into the gap.

70. (Previously Presented) A water treatment system comprising:

(1) a water treatment cartridge for treating water, said water treatment cartridge capable of sealingly and releasably engaging a water treatment device, said water treatment cartridge comprising:

(a) a housing, an inlet for introducing water into said water treatment cartridge, an outlet port for egress of treated water from said water treatment cartridge, and a treatment media for treating water, said treatment media being in fluid communication with said inlet and said outlet ports;

(b) a first tube comprising an inside surface, an outside surface, a proximal end, and a distal end, wherein at least one of said inside surface and said outside surface is a sealing surface; and

(c) a second tube comprising an inside surface, an outside surface, a proximal end, and a distal end, wherein at least one of said inside surface and said outside surface is a sealing surface;

wherein said first tube extends from said housing and surrounds said outlet port, and wherein at least a portion of said first tube or at least a portion of said second tube surrounds the other;

Reply to Final Office Action of March 7, 2007

(2) a water treatment device for sealingly and releasably engaging said water treatment cartridge, said water treatment device comprising:

(a) an outlet housing having an inside surface and an outside surface, said outlet housing

comprising at least one sealing surface; and

(b) a vent housing having an inside surface and an outside surface, said vent housing

comprising at least one sealing surface;

wherein at least a portion of said inside surface of said outlet housing forms and defines a treated

water outlet passageway, and wherein at least a portion of said outside surface of said outlet

housing and at least a portion of said inside surface of said vent housing forms and defines an air

vent:

wherein said first tube sealingly engages said outlet housing to form a first seal, and wherein said

second tube sealingly engages said vent housing to form a second seal and such that said inside

surface of said first tube and said inside surface of said outlet housing are in fluid communication, and such that said outside surface of said first tube and said inside surface of

said vent housing are in fluid communication;

wherein a gap is disposed between said inlet and said treated water outlet passageway and

sealingly enclosed between said first and second seals such that said first and second seals do not

permit a liquid to flow into the gap from said inlet to said treated water outlet passageway.

71. (Previously Presented) The water treatment system of claim 70, wherein said at least one

sealing surface of said outlet housing is at least one o-ring oriented around said outside surface of

said outlet housing, and said at least one sealing surface of said vent housing is at least one o-

ring oriented around said outside surface of said vent housing.

- 10 -

Reply to Final Office Action of March 7, 2007

72. (Previously Presented) The system of claim 70, wherein at least one sealing engagement of said second tube and said vent housing occurs distal to at least one sealing engagement of said first tube and said outlet housing, relative to said water treatment cartridge housing.

73. (Previously Presented) The water treatment device of claim 60, wherein the area between said outside surface of said first housing and said inside surface of said second housing does not function as an untreated water inlet passageway.